DCoMPASS™

Digital Compact Multi-purpose Advanced Stabilized System Special Missions Aircraft

General

The DCoMPASS payload is one of the newest members of our battle-proven stabilized EO payload family, in service with leading customers worldwide.

- Delivers superb day and night intelligence, surveillance, target acquisition and tactical reconnaissance (ISTAR) capabilities in the harshest weather conditions
- Single LRU configuration integrating up to five EO elements: HD color TV camera with optional low light mode, large format thermal imager, laser target illuminator, eyesafe laser range finder and laser target designator
- Lightweight, small payload made possible by new miniature digital electronics and advanced lightweight materials
- Battle proven, military-qualified for airborne application

Elbit Systems™ ISTAR

DCoMPASS

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Applications

- Long-range reconnaissance
- Maritime patrol
- Law enforcement

Main Advantages & Features

- Highly stabilized crystal clear image on both HD color TV and thermal imager
- Compact and lightweight design permits additional payload and fuel capacity in the carrying platform while facilitating future upgrades
- Inertial measurement unit (IMU) provides highly accurate geo-location and rock solid stabilization
- Unique in-flight boresight mechanism enables long range precise laser designation
- Simple system integration with helmet mounted systems (HMS), radar and fire control applications
- Advanced video enhancement package including: haze penetration, color restoration and sharpening feature

Technical Data

System:

- Diameter 15″
- Weight 33-38 kg
- Angular coverage
  - Azimuth N x 360°
  - Elevation +35° to -85°
- Environmental conditions MIL-STD-810

Day Channel (HD)

- Camera type Large format digital CCD color camera
- Sensor 2/3″ CCD
- No. of pixels 1394 x 1040
- FOV (continuous zoom):

	Digital	Analog
Narrow	0.59° X 0.44°	0.36 ° X 0.27°
Wide	24 ° X 18 °	14 ° X 10.5 °

Thermal Imager

- FLIR Cooled 3rd generation 3-5µm FPA with 640 x 512 pixels

- FOV

	FLIR A - TOPAZ	FLIR B - LOTUS
Wide	24° X 18°	13.7° X 10.4°
Medium	Continuous	2.0° x 1.5°
Narrow	0.8° X 0.6°	0.61° x 0.46°

Laser Rangefinder (Eyesafe)

- Laser Sensors
- - Wavelength 1.54µm
- - Rate 1 pps(10 pps option)
- Dual Wavelength Laser Target Designator & Rangefinder (LRFTD)
- - Transmitter Diode-pumped advanced technology
- - Wavelength 1.064 µm / 1.57 µm
- - Max pulse rate 20pps
- Laser target illuminator/pointer
- - Wavelength 830 nm (NVG compatible)

Interface Communications

- RS422
- MIL-STD-1553
- Ethernet

Video Output

- PAL, NTSC
- Gigabit Ethernet (GigE)

Additional features

- Geo-location using Inertial Measurement Unit (IMU)
- Auto-tracker
- Step & Stare
- Picture In Picture (PIP)

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